

# Jieqiong Lin

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9285542/publications.pdf>

Version: 2024-02-01

100  
papers

1,202  
citations

516710

16  
h-index

454955

30  
g-index

100  
all docs

100  
docs citations

100  
times ranked

1071  
citing authors

#	ARTICLE	IF	CITATIONS
1	A review on the processing accuracy of two-photon polymerization. <i>AIP Advances</i> , 2015, 5, .	1.3	258
2	Diffusion mechanism of tools and simulation in nanoscale cutting the Ni-Fe-Cr series of Nickel-based superalloy. <i>International Journal of Mechanical Sciences</i> , 2019, 150, 625-636.	6.7	51
3	Surface generation of freeform surfaces in diamond turning by applying double-frequency elliptical vibration cutting. <i>International Journal of Machine Tools and Manufacture</i> , 2016, 104, 45-57.	13.4	50
4	New observations on tool wear mechanism in machining Inconel 718 under water vapor+ air cooling lubrication cutting conditions. <i>Journal of Cleaner Production</i> , 2015, 90, 381-387.	9.3	36
5	Wear characteristics and wear control method of PVD-coated carbide tool in turning Inconel 718. <i>International Journal of Advanced Manufacturing Technology</i> , 2015, 78, 1329-1336.	3.0	35
6	Study on Ti-6Al-4V Alloy Machining Applying the Non-Resonant Three-Dimensional Elliptical Vibration Cutting. <i>Micromachines</i> , 2017, 8, 306.	2.9	29
7	Molecular Dynamics Simulation Study of the Effect of DMSO on Structural and Permeation Properties of DMPC Lipid Bilayers. <i>Journal of Physical Chemistry B</i> , 2012, 116, 1299-1308.	2.6	27
8	Design and Computational Optimization of Elliptical Vibration-Assisted Cutting System With a Novel Flexure Structure. <i>IEEE Transactions on Industrial Electronics</i> , 2019, 66, 1151-1161.	7.9	27
9	Elliptic vibration assisted cutting of metal matrix composite reinforced by silicon carbide: an investigation of machining mechanisms and surface integrity. <i>Journal of Materials Research and Technology</i> , 2021, 15, 1115-1129.	5.8	27
10	Development of a double-frequency elliptical vibration cutting apparatus for freeform surface diamond machining. <i>International Journal of Advanced Manufacturing Technology</i> , 2016, 87, 2099-2111.	3.0	26
11	Study on subsurface damage and surface quality of silicon carbide ceramic induced by a novel non-resonant vibration-assisted roll-type polishing. <i>Journal of Materials Processing Technology</i> , 2020, 282, 116667.	6.3	26
12	Investigation of surface integrity transition of SiCp/Al composites based on specific cutting energy during ultrasonic elliptical vibration assisted cutting. <i>Journal of Manufacturing Processes</i> , 2022, 79, 654-665.	5.9	26
13	Research on homogenization and surface morphology of Ti-6Al-4V alloy by longitudinal-torsional coupled ultrasonic vibration ball-end milling. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 104, 301-313.	3.0	20
14	Non-resonant vibration-assisted magnetorheological finishing. <i>Precision Engineering</i> , 2021, 71, 263-281.	3.4	19
15	Subsurface Damage in Polishing Process of Silicon Carbide Ceramic. <i>Materials</i> , 2018, 11, 506.	2.9	18
16	Effects of relevant parameters on the bandgaps of acoustic metamaterials with multi-resonators. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	2.3	17
17	New observations on wear mechanism of self-reinforced SiAlON ceramic tool in milling of Inconel 718. <i>Archives of Civil and Mechanical Engineering</i> , 2017, 17, 467-474.	3.8	17
18	Design, analysis and testing of a new piezoelectric tool actuator for elliptical vibration turning. <i>Smart Materials and Structures</i> , 2017, 26, 085008.	3.5	17

#	ARTICLE	IF	CITATIONS
19	Modeling and analysis of surface topography of Ti6Al4V alloy machining by elliptical vibration cutting. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 98, 2759-2768.	3.0	17
20	Fabrication of Micro-Structured Surfaces on Bulk Metallic Glasses Based on Fast Tool Servo Assisted Diamond Turning. <i>Science of Advanced Materials</i> , 2012, 4, 906-911.	0.7	17
21	An Improved Adaptive Feedforward Cancellation for Trajectory Tracking of Fast Tool Servo Based on Fractional Calculus. <i>Procedia Engineering</i> , 2011, 15, 315-320.	1.2	15
22	Design and analysis of a novel piezoelectrically actuated vibration assisted rotation cutting system. <i>Smart Materials and Structures</i> , 2018, 27, 095020.	3.5	15
23	Remote sensing image denoising based on improved semi-soft threshold. <i>Signal, Image and Video Processing</i> , 2021, 15, 73-81.	2.7	15
24	Cutting deformation mechanism of SiCp/Al composites based on strain gradient theory. <i>Journal of Materials Processing Technology</i> , 2022, 299, 117345.	6.3	15
25	Flow characteristics and constitutive equations of flow stress in high speed cutting Alloy 718. <i>Journal of Alloys and Compounds</i> , 2017, 728, 854-862.	5.5	14
26	Modeling and analysis of the chip formation and transient cutting force during elliptical vibration cutting process. <i>AIP Advances</i> , 2017, 7, 125101.	1.3	14
27	Design and Performance Testing of a Novel Three-Dimensional Elliptical Vibration Turning Device. <i>Micromachines</i> , 2017, 8, 305.	2.9	13
28	Vibration-Assisted Roll-Type Polishing System Based on Compliant Micro-Motion Stage. <i>Micromachines</i> , 2018, 9, 499.	2.9	13
29	Design and Fabrication of a Three-Dimensional Artificial Compound Eye Using Two-Photon Polymerization. <i>Micromachines</i> , 2018, 9, 336.	2.9	12
30	Chatter Identification of Three-Dimensional Elliptical vibration Cutting Process Based on Empirical Mode Decomposition and Feature Extraction. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 21.	2.5	11
31	Development of Piezo-Actuated Two-Degree-of-Freedom Fast Tool Servo System. <i>Micromachines</i> , 2019, 10, 337.	2.9	11
32	Effects of Machining Errors on Optical Performance of Optical Aspheric Components in Ultra-Precision Diamond Turning. <i>Micromachines</i> , 2020, 11, 331.	2.9	11
33	Investigation and simulation based on mesoscopic model of SiCp/Al composites during precision machining: deformation mechanism and surface quality. <i>International Journal of Advanced Manufacturing Technology</i> , 2022, 119, 2173-2186.	3.0	11
34	An adaptive direct slicing method based on tilted voxel of two-photon polymerization. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 96, 521-530.	3.0	9
35	A New Vibration Device Applied for Two-Dimensional Ultrasonic Polishing of Biomaterials. <i>IEEE Access</i> , 2019, 7, 92838-92849.	4.2	9
36	Friction modeling of tool-chip interface based on shear-slip theory for vibration assisted swing cutting. <i>Journal of Manufacturing Processes</i> , 2020, 55, 240-248.	5.9	9

#	ARTICLE	IF	CITATIONS
37	Modeling and Analysis of a Novel Decoupled Vibration-Assisted Swing Cutting System for Micro/Nano-Machining Surface. IEEE Access, 2018, 6, 70388-70396.	4.2	8
38	Analytical Topography Simulation of Micro/Nano Textures Generated on Freeform Surfaces in Double-Frequency Elliptical Vibration Cutting Based Diamond Turning. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2018, 140, .	2.2	8
39	Study on vibration-assisted thermal nanoimprint lithography. Applied Nanoscience (Switzerland), 2020, 10, 3315-3324.	3.1	8
40	Design of Robust Adaptive Fuzzy Controller for a Class of Single-Input Single-Output (SISO) Uncertain Nonlinear Systems. Mathematical Problems in Engineering, 2020, 2020, 1-11.	1.1	8
41	Design and Fabrication of Double-Layer Curved Compound Eye via Two-Photon Polymerization. IEEE Photonics Technology Letters, 2021, 33, 231-234.	2.5	8
42	Analysis of the influence of vibrations on the imaging quality of an integrated TDICCD aerial camera. Optics Express, 2021, 29, 18108.	3.4	8
43	Design, analysis, and testing of a flexure-based vibration-assisted polishing device. AIP Advances, 2018, 8, 055113.	1.3	7
44	Non-resonant 3D Elliptical Vibration Cutting Induced Submicron Grating Coloring. International Journal of Precision Engineering and Manufacturing, 2021, 22, 659-669.	2.2	7
45	Analyzing the Effect of Particle Shape on Deformation Mechanism during Cutting Simulation of SiC P/Al Composites. Micromachines, 2021, 12, 953.	2.9	7
46	Study on the tool wear of 3-D elliptical vibration cutting. Mechanical Sciences, 2017, 8, 215-220.	1.0	7
47	Wettability and Droplet Directional Spread Investigation of Crescent Array Surface Inspired by Slippery Zone of Nepenthes. Advanced Materials Interfaces, 2022, 9, 2101231.	3.7	7
48	A method for positioning the focal spot location of two photon polymerization. AIP Advances, 2017, 7, 095318.	1.3	6
49	Band gaps in grid structure with periodic local resonator subsystems. Modern Physics Letters B, 2017, 31, 1750225.	1.9	6
50	Investigation of silicon carbide ceramic polishing by simulation and experiment. Advances in Mechanical Engineering, 2017, 9, 168781401772909.	1.6	6
51	Development of a Novel Three Degrees-of-Freedom Rotary Vibration-Assisted Micropolishing System Based on Piezoelectric Actuation. Micromachines, 2019, 10, 502.	2.9	6
52	A nonlinear Wiener system identification based on improved adaptive step-size glowworm swarm optimization algorithm for three-dimensional elliptical vibration cutting. International Journal of Advanced Manufacturing Technology, 2019, 103, 2865-2877.	3.0	6
53	Adaptive Slicing Method for Three-Dimensional Microstructures with Free-Form Surfaces in Two Photon Polymerization Microfabrication. Nano, 2019, 14, 1950006.	1.0	6
54	A tool path generation method for quasi-intermittent vibration assisted swing cutting. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 2020, 234, 624-633.	2.5	6

#	ARTICLE	IF	CITATIONS
55	Design, analysis, and testing of a novel 2-DOF vibration-assisted polishing device driven by the piezoelectric actuators. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 111, 471-493.	3.0	6
56	Magnetic Driven Double Curved Conical Microhelical Robot. <i>Advanced Theory and Simulations</i> , 2021, 4, 2100189.	2.8	6
57	Improved magnetorheological finishing process with arc magnet for borosilicate glass. <i>Materials and Manufacturing Processes</i> , 2022, 37, 458-466.	4.7	6
58	Transverse additive manufacturing and optical evaluation of miniature thin lenses in ultracompact micro multi-spherical compound eye. <i>Optics and Lasers in Engineering</i> , 2022, 151, 106913.	3.8	6
59	Improved memetic algorithm for nonlinear identification of a three-dimensional elliptical vibration cutting system. <i>Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering</i> , 2014, 228, 449-460.	1.0	5
60	Scaling laws of nanorods in two-photon polymerization nanofabrication using a continuous scanning method. <i>AIP Advances</i> , 2016, 6, 105014.	1.3	5
61	Analytical Prediction of Subsurface Damages and Surface Quality in Vibration-Assisted Polishing Process of Silicon Carbide Ceramics. <i>Materials</i> , 2019, 12, 1690.	2.9	5
62	Modeling and analysis for the position and posture errors of laser focal spot in large-scale fabrication via two photon polymerization. <i>Optics and Laser Technology</i> , 2020, 126, 106076.	4.6	5
63	High-quality efficient anti-reflection nanopillar structures layer prepared by a new type vibration-assisted UV nanoimprint lithography. <i>Journal of Manufacturing Processes</i> , 2021, 61, 461-472.	5.9	5
64	Parameter tuning of robust adaptive fuzzy controller for 3D elliptical vibration-assisted cutting. <i>Mechanical Sciences</i> , 2021, 12, 433-442.	1.0	5
65	Modeling and optimization of the integrated TDICCD aerial camera pointing error. <i>Applied Optics</i> , 2020, 59, 8196.	1.8	5
66	Evolution of Workpiece Microstructure and Cutting Force During Ultraprecision Vibration Assisted Machining. <i>Journal of Computational and Theoretical Nanoscience</i> , 2013, 10, 78-85.	0.4	4
67	Two Photon Polymerization Micro/Nanofabrication of Suspended Nanorods in Organically Modified Ceramics. <i>Nano</i> , 2017, 12, 1750033.	1.0	4
68	Improved differential evolutionary algorithm for nonlinear identification of a novel vibration-assisted swing cutting system. <i>International Journal of Adaptive Control and Signal Processing</i> , 2019, 33, 1066-1078.	4.1	4
69	Development of an Aspherical Aerial Camera Optical System. <i>IEEE Photonics Journal</i> , 2019, 11, 1-13.	2.0	4
70	Modeling and realization of work-space analysis of a piezoelectric actuator 2-DOF vibration-assisted swing cutting system. <i>Applied Nanoscience (Switzerland)</i> , 2021, 11, 777-785.	3.1	4
71	An analytical cutting force model of quasi-intermittent vibration assisted swing cutting based on predictive machining theory. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2022, 236, 3651-3662.	2.1	4
72	Modeling and Compensation for Hysteresis Nonlinearity of a Piezoelectrically Actuated Fast Tool Servo Based on a Novel Linear Model. <i>ISRN Mechanical Engineering</i> , 2012, 2012, 1-8.	0.9	3

#	ARTICLE	IF	CITATIONS
73	Impact of microvibration on the optical performance of an airborne camera. <i>Applied Optics</i> , 2021, 60, 1283.	1.8	3
74	Modeling and experimental analysis on the effect of carrier aircraft vibration on the imaging quality of an aspherical aerial camera. <i>Optik</i> , 2021, 232, 166571.	2.9	3
75	Modeling, measurement, and calibration of three-axis integrated aerial camera pointing errors. <i>Measurement Science and Technology</i> , 2021, 32, 075206.	2.6	3
76	Feasibility study of single-crystal silicon ductile-regime turning via fast tool servo. <i>Journal of Materials Research and Technology</i> , 2022, 16, 1478-1493.	5.8	3
77	Modeling and investigation of cutting force for SiCp/Al composites during ultrasonic vibration-assisted turning. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> , 2022, 236, 1013-1022.	2.5	3
78	A Quasiphysics Intelligent Model for a Long Range Fast Tool Servo. <i>Scientific World Journal, The</i> , 2013, 2013, 1-12.	2.1	2
79	Study on the consistency of the voxel of two photon polymerization with inclined beam. <i>Optics Communications</i> , 2016, 381, 444-449.	2.1	2
80	The preparation of Nepenthes Bio-inspired superhydrophobic surface primary microstructure. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 274, 012066.	0.6	2
81	Design, analysis and preliminary tests of a linear array CCD aerial camera for ground simulation. <i>Optik</i> , 2020, 200, 163378.	2.9	2
82	Physically Based Constitutive Model for Viscoplastic Deformation of Inconel718 at High Strain Rates and Temperatures. <i>Journal of Aerospace Engineering</i> , 2020, 33, 04020051.	1.4	2
83	Multiscale Analysis of Cutting Force During Nano-Scale Vibration Assisted Machining. <i>Nanoscience and Nanotechnology Letters</i> , 2011, 3, 749-754.	0.4	2
84	Harmonic retrieval of regenerative machining chatter responses. <i>Mechanical Systems and Signal Processing</i> , 2013, 41, 679-690.	8.0	1
85	Research on the Effect of Cutting Parameters on Chip Formation and Cutting Force in Elliptical Vibration Cutting Process. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 274, 012142.	0.6	1
86	Development of dissipative elastic metamaterials based on the layered cantilever-in-mass structure for attenuating the broad spectrum vibrations. <i>AIP Advances</i> , 2018, 8, 055222.	1.3	1
87	Optical Design of Small Imaging Lens with Large Field Of View Angle. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019, 252, 052128.	0.3	1
88	Development of Decoupling Device for Vibration-Assisted Roller Polishing of Silicon Carbide Ceramics. <i>IEEE Access</i> , 2020, 8, 219098-219113.	4.2	1
89	Prediction and Verification of Cutting Force in Machining of SiCp/Al Composites Based on Dynamic Mechanical Characteristics of Cutting Deformation Zone. <i>Applied Composite Materials</i> , 0, , 1.	2.5	1
90	Piezoelectric Hysteresis Modeling of Hybrid Driven Three-Dimensional Elliptical Vibration Aided Cutting System Based on an Improved Flower Pollination Algorithm. <i>Micromachines</i> , 2021, 12, 1532.	2.9	1

#	ARTICLE	IF	CITATIONS
91	A Novel Service-Oriented Network Structure in Wireless Sensor Networks. , 2011, , .		0
92	Design and analysis of a 3D Elliptical Micro-Displacement Motion Stage. IOP Conference Series: Materials Science and Engineering, 2017, 274, 012143.	0.6	0
93	Development and Experiment of a Novel Vibration-assisted Cutting Apparatus. , 2018, , .		0
94	Design and analysis of ground-based operation test bench for complex optical machine functional components. AIP Advances, 2019, 9, 095203.	1.3	0
95	Stochastic Multi-Molecular Modeling Method of Organic-Modified Ceramics in Two-Photon Induced Photopolymerization. Materials, 2019, 12, 3876.	2.9	0
96	Error modeling and analysis of optomechanical platform based on multi-system theory. AIP Advances, 2020, 10, 035319.	1.3	0
97	Ambient temperature effect on the imaging quality of an aspherical airborne camera: theoretical and experimental analysis. Applied Optics, 2021, 60, 3668.	1.8	0
98	NURBS Fitting Algorithm of Section Contour Data based on Two-photon Polymerization Process. , 2016, , .		0
99	Effect and Optimization of the Process Parameters on the Surface Morphology of the 3D Elliptical Vibration Cutting. DEStech Transactions on Computer Science and Engineering, 2017, , .	0.1	0
100	Design, Analysis and Testing of Piezoelectric Tool Actuator for Elliptical Vibration Cutting. , 0, , .		0